

048041

METHOD AND APPARATUS FOR CARRYING OUT CIRCUIT SIMULATION

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ABSTRACT OF THE DISCLOSURE

10 In a method and apparatus for carrying out circuit  
simulation which performs circuit simulation on a circuit  
to be simulated, a plurality of partial circuits to be  
inspected for equivalence in order to check if they  
exhibit equivalent operational characteristics are  
extracted from the circuit to be simulated, and the  
intensity of the influence of an external terminal of the  
15 circuit to be simulated is assessed by tracing paths  
linking the external terminal and given terminals of the  
partial circuits. Moreover, based on the configurations  
of the partial circuits, the connectional relationships  
of corresponding input terminals of the partial circuits,  
20 the operational characteristics of corresponding  
component elements of the partial circuits, and the  
intensity of the influence of the external terminal, the  
plurality of partial circuits are inspected for  
equivalence in order to detect partial circuits  
25 exhibiting equivalence. After the circuit to be  
simulated is compressed by integrating the partial  
circuits into one circuit, circuit simulation is carried  
out.

048041-030998